

**10/510521**

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DEVICE FOR CONFINEMENT OF A PLASMA WITHIN A VOLUMEGeneral technical domain

*This application is a 371 of PCT/TR03/00634 02/27/2003.*

This invention relates to the general technical domain of plasmas, from the lowest pressures ( $10^{-6}$  or less) up to pressures of the order of  $10^{-2}$  torr.

5 More precisely, the invention relates to complete or partial confinement of plasma in a volume, and particularly confinement in large uniform plasma volumes at low and very low pressures.

10 The invention is advantageously used in applications for all techniques that require firstly production of dense and uniform plasma, and secondly confinement of this uniform plasma in a chamber, for example in which the application is taking place.

15 Remember that plasma is a conducting gaseous medium composed of electrons, ions and neutral particles, macroscopically electrically neutral. Plasma is obtained using an electric field, by ionisation of a gas by electrons accelerated in this electric field.